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(21) Application number: 10224151		(71) Applicant:	NISSAN MOTOR CO LTD
(22) Date of filing: 07.08.98		(72) Inventor:	NAKAMURA MASAKI SUGA KATSUO

(54) SULFUR POISONING RESISTANT NOX OCCLUDING MATERIAL, AND EXHAUST GAS PURIFYING CATALYST AND EMISSION CONTROL SYSTEM USING THIS

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a sulfur poisoning resistant NOx occluding material hardly poisoned by sulfur and capable of suppressing a reduction in NOx absorbing and releasing action by laminating, on a fire resisting inorganic carrier, an inner layer and outer layer containing specified components, respectively, in a prescribed weight ratio, and using a noble metal component as occasion demands.

SOLUTION: An inner layer and a surface layer are

successively laminated on a fire resisting inorganic carrier. The Inner layer contains an element M whose generating free energy changing value (≈G) of dMp(SO4)q is -350 kgJ/ mol or less in a reaction represented by the reaction expression: aO2+bSO2+ cMxOy-dMp(SO4)q (wherein M represents one element selected from alkali metal and others, MxOy represents the oxide of the M. Mp(SO4)q represents a sulfate of the M, (a)-(d) each represent represent the coefficients, and (q) quantity satisfying the valency of the M). The surface layer contains the element M having AG larger than -350 kJ/mol. Further, the weight ratio of the inner layer to the surface layer is set to 1:3-3:1.

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